This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9 (Canceled).

Claim 10 (Currently Amended): A proximity head for semiconductor wafer processing, comprising:

a heating portion configured to control a temperature of a liquid flowing therethrough;

a sensor disposed within the proximity head for measuring the temperature of the liquid flowing through the heating portion;

a channel disposed in the heating portion, the channel being configured to guide the liquid through the heating portion; and

a bottom surface having at least one a plurality of outlet ports and at least one a plurality of vacuum inlet port ports, the at least one plurality of outlet port ports being in fluid communication with the channel disposed in the heating portion, and the at least one plurality of outlet port ports and the at least one the plurality of vacuum inlet port ports opening to a liquid meniscus supported between the bottom surface of the proximity head and a surface of a semiconductor wafer, wherein the plurality of vacuum inlet ports surrounds the plurality of outlet ports.

Claim 11 (Original): The proximity head of claim 10, wherein the heating portion is comprised of silicon carbide and is coupled to a power source.

Claim 12 (Original): The proximity head of claim 10, wherein the heating portion is comprised of an insulating material having an electrically conductive material dispersed therein, the electrically conductive material being coupled to a power source.

Claim 13 (Original): The proximity head of claim 12, wherein the insulating material is comprised of a ceramic material.

Claim 14 (Original): The proximity head of claim 12, wherein the electrically conductive material comprises a wire.

Claim 15 (Currently Amended): The proximity head of claim 10, wherein the channel in the heating portion is a first channel having a first flow path and the heating portion further includes a second channel having a second flow path, wherein the first channel flow path and the second channel flow are separate separated by a material having sufficient thermal conductivity so that heat from a circulating liquid in the second channel can be exchanged with the liquid in the first channel.

Claim 16 (Previously Presented): The proximity head of claim 10, wherein the sensor is coupled to a controller, the controller being configured to control the temperature of the liquid in the heating portion.

- **Claim 17 (Currently Amended):** A semiconductor wafer processing system, comprising: a liquid source;
- a proximity head in fluid communication with the liquid source, the proximity head including:
 - a heating portion configured to control a temperature of a liquid flowing therethrough,
 - a sensor disposed within the proximity head for measuring the temperature of the liquid flowing through the heating portion,
 - a channel disposed in the heating portion, the channel being configured to guide the liquid through the heating portion, and
 - a bottom surface having at least one a plurality of outlet ports and at least one a plurality of vacuum inlet port ports, the at least one plurality of outlet port ports being in fluid communication with the channel disposed in the heating portion, and the at least one plurality of outlet port ports and the at least one the plurality of vacuum inlet ports opening to a liquid meniscus supported between the bottom surface of the proximity head and a surface of a semiconductor wafer, wherein the plurality of vacuum inlet ports surrounds the plurality of outlet ports;
- a first member coupled to the proximity head, the first member being configured to manipulate the proximity head; and
- a second member configured to support a wafer, the second member being capable of placing the semiconductor wafer proximate to the bottom surface of the proximity head.

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Claim 18 (Original): The semiconductor wafer processing system of claim 17, wherein the heating portion is comprised of silicon carbide and is coupled to a power source.

Claim 19 (Original): The semiconductor wafer processing system of claim 17, wherein the heating portion is comprised of an insulating material having an electrically conductive material dispersed therein, the electrically conductive material being coupled to a power source.

Claim 20 (Currently Amended): The semiconductor wafer processing system of claim 17, wherein the channel in the heating portion is a first channel having a first flow path and the heating portion further includes a second channel having a second flow path, wherein the first channel flow path and the second channel flow are separate separated by a material having sufficient thermal conductivity so that heat from a circulating liquid in the second channel can be exchanged with the liquid in the first channel.

Claim 21 (Previously Presented): The semiconductor wafer processing system of claim 17, wherein the sensor is coupled to a controller, the controller being configured to control the temperature of the liquid in the heating portion.